



Biomedical Informatics

Year One					
Fall Semester			Spring Semester		
EN	1103	English Composition I	EN	1113	English Composition II
MA	1713	Calculus I	MA	1723	Calculus II
CSE	1284	Intro to Programming	CSE	1384	Intermediate Programming
DSCI	2013	Data Science Literacy	DSCI	2012	Data Wrangling Lab
		Humanities			Lab Based Science

Year Two					
Fall Semester			Spring Semester		
MA	2733	Calculus III	MA	3123	Statistical Inference
CSE	2813	Discrete Structures	CSE	2383	Data Structures & Analysis of Algorithms
DSCI	3013	Data Acquisition			Public Speaking Course
BIS	3233	Management Information Systems	PHI	1113	Intro to Logic
DSCI	4013	Data Visualization	DSCI	3022	Data Visualization Lab
					Fine Art

Year Three					
Fall Semester			Spring Semester		
MA	3113	Intro to Linear Algebra	MA	4523	Intro to Probability
CSE	4633	Artificial Intelligence	CSE	4503	Database Management Systems
ABE	4633	Biomedical Signals and Sensors	BCH	4443	Introduction to Public Health
ABE	4463	Intro to Imaging in Biological Systems			Written Communication Course
		Social/Behavioral Science			Lab Based Science
DSCI	3012	Description, Analysis & Inference Lab			

Year Four					
Fall Semester			Spring Semester		
CSE	3763	Legal & Ethical Issues in Computing	DSCI	2022	Cloud, Quantum & High Perf Computing Lab
DSCI	3032	Artificial Intelligence Lab			Biomedical Systems & Diagnostics Course
ABE	4323	Physiological Systems in Biomedical Eng			1 of 2 Biomedicine & Health App Course
		Biomedical Modeling Course			2 of 2 Biomedicine & Health App Course
DSCI	4553	Senior Capstone One	DSCI	4663	Senior Capstone Two

Biomedical Modeling (Choose 1 of the following):

- CSE 4683 Machine Learning and Soft Computing
- CSE 4623 Computational Biology
- MA 4343 Mathematical Modeling with Biological and Ecological Applications
- BIO 4124 Mathematical Modeling for Biologists

Biomedical Systems and Diagnostics (Choose 1 of the following):

- ABE 4443 Spectroscopic Sensing in Biosystems
- EP 3613 Exercise Electrocardiography
- ABE 1912 Computational Problem Solving for Biological Systems

Biomedicine and Health Applications (Choose 2 of the following):

- FNH 3103 Introduction to Health Professions
- CSE/PSY 4653 Cognitive Science
- BCH 2013 Intro to Forensic Science
- BCH 4113 Essentials of Molecular Genetics